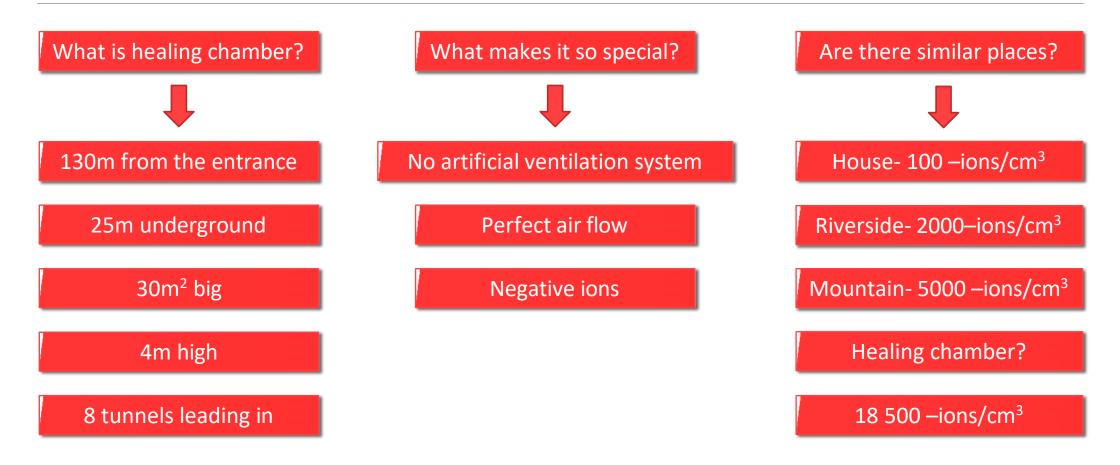
Dr Emina Karamehić, MD, Visoko, Bosnia Health benefits of visiting underground labyrinth Ravne- pilot study

ARCHEOLOGICAL PARK: BOSNIAN PYRAMID OF THE SUN FOUNDATION

Introduction



Methods

- 20 subjects in two groups
- Two visits to healing chamber- each for 1 hour



- 1 week between visits
- No food, lots of water, no skiping prescribed theraphy

Methods

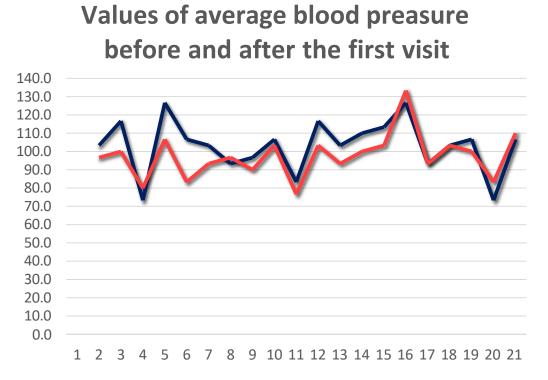
OBJECTIVE METHODS

- 1. Laboratory: blood and urine sample
- Full blood count, bilirubin, cholesterol, triglycerides, urine sediment
- 2. Mobile team:
- Blood pressure, level of glucose in the blood, heart rate

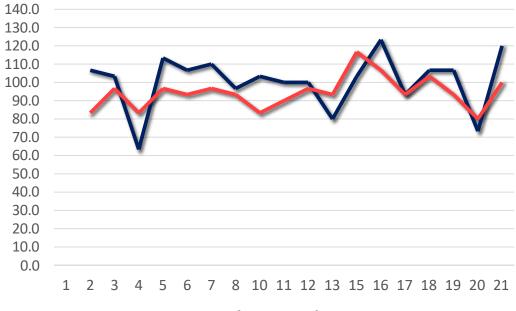
SUBJECTIVE METHODS

- •Subjective evaulation scales requiring 1-10 grading of the following:
 - General health condition
 - Stress level
 - Breathing quality
 - Pain
 - Headache



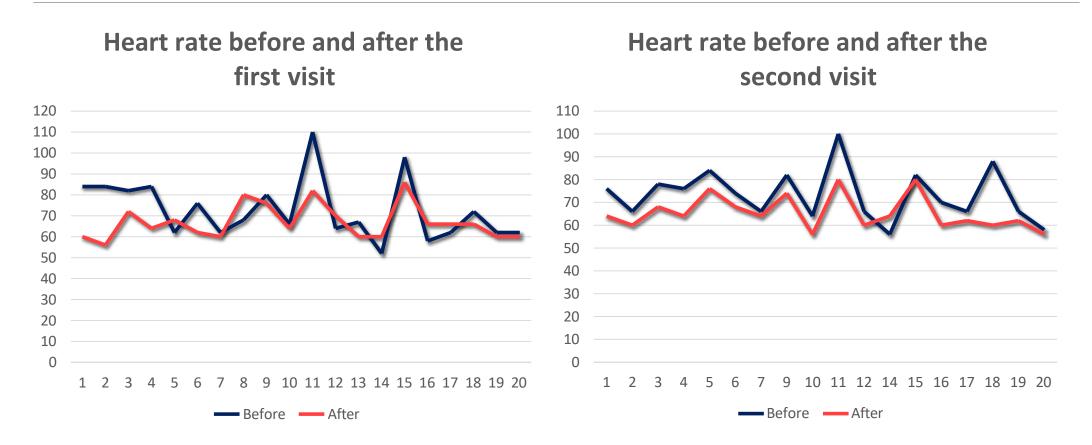


Values of average blood preasure before and after the second visit



---- Before ---- After

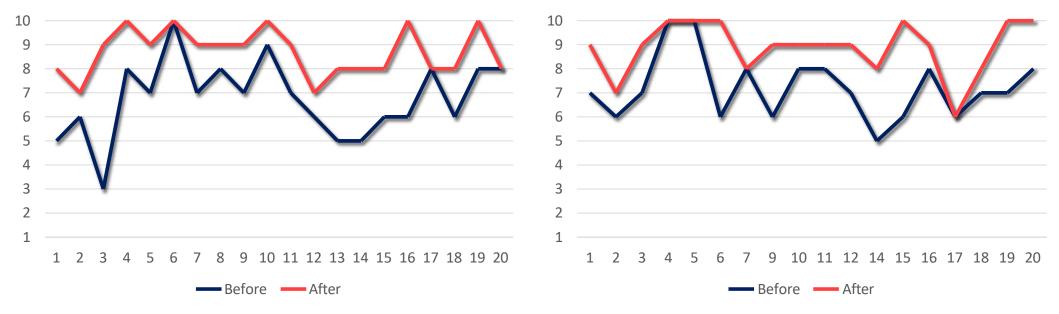
-Before -After

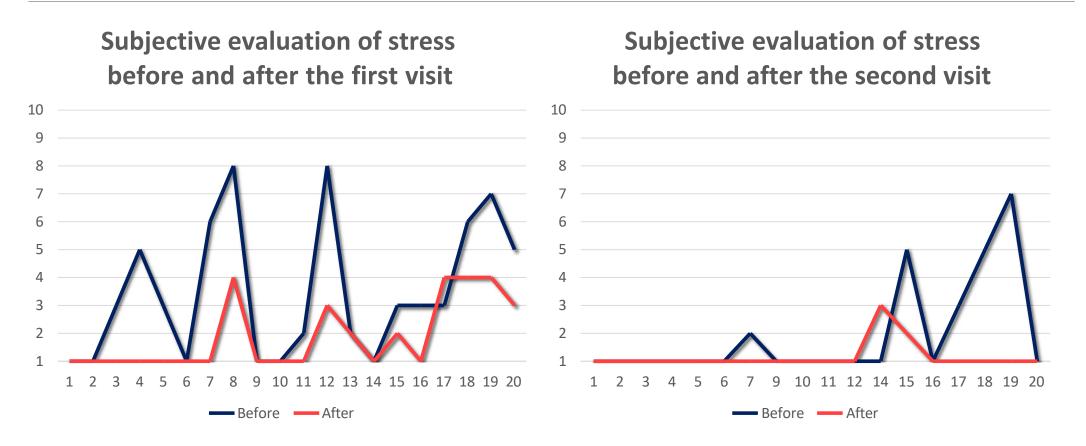


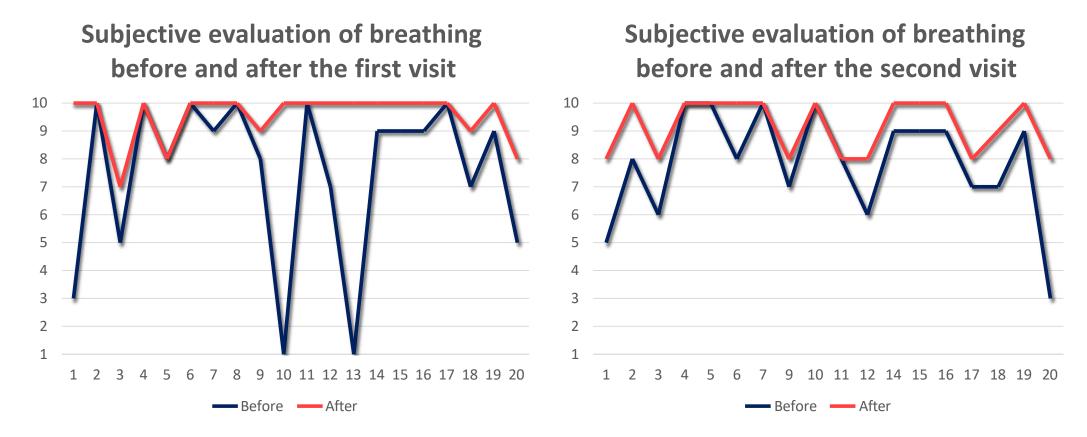
Level of glucose in blood before Level of glucose in blood before and after the first visit and after the second visit 8. 4.3.5 2.5 1.5 0.5 0.5 4.3.7 2.7 1.5 0.5 0 9 10 11 12 13 14 15 16 17 18 19 20 10 11 12 14 15 16 17 18 19 20 1 2 1 2 3 4 5 6 7 8 3 5 9 4 Before After -Before -After

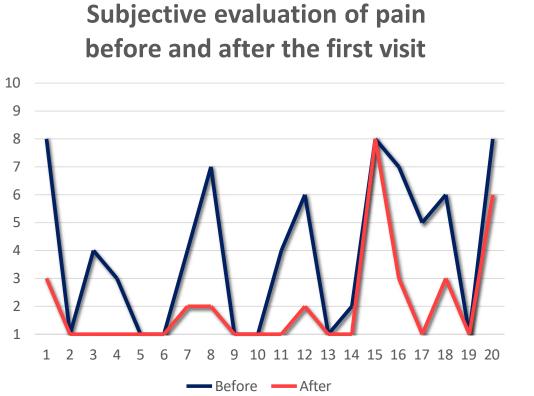
Subjective evaluation of general condition before and after the first visit

Subjective evaluation of general condition before and after the second visit

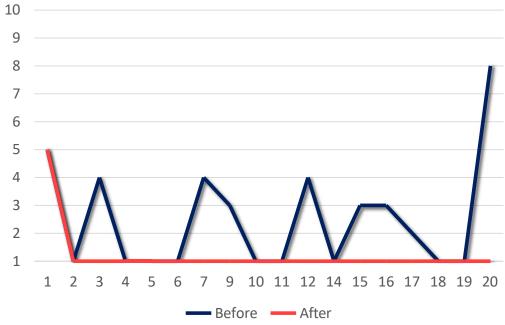




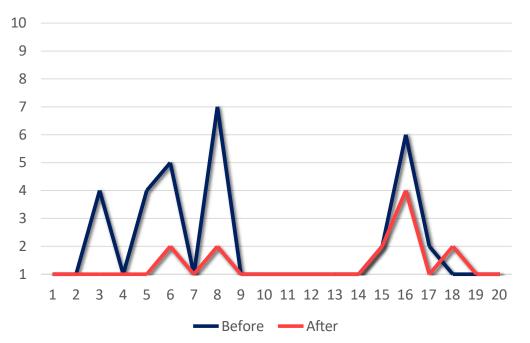




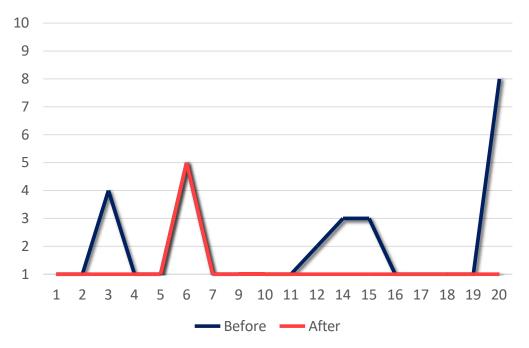
Subjective evaluation of pain before and after the second visit

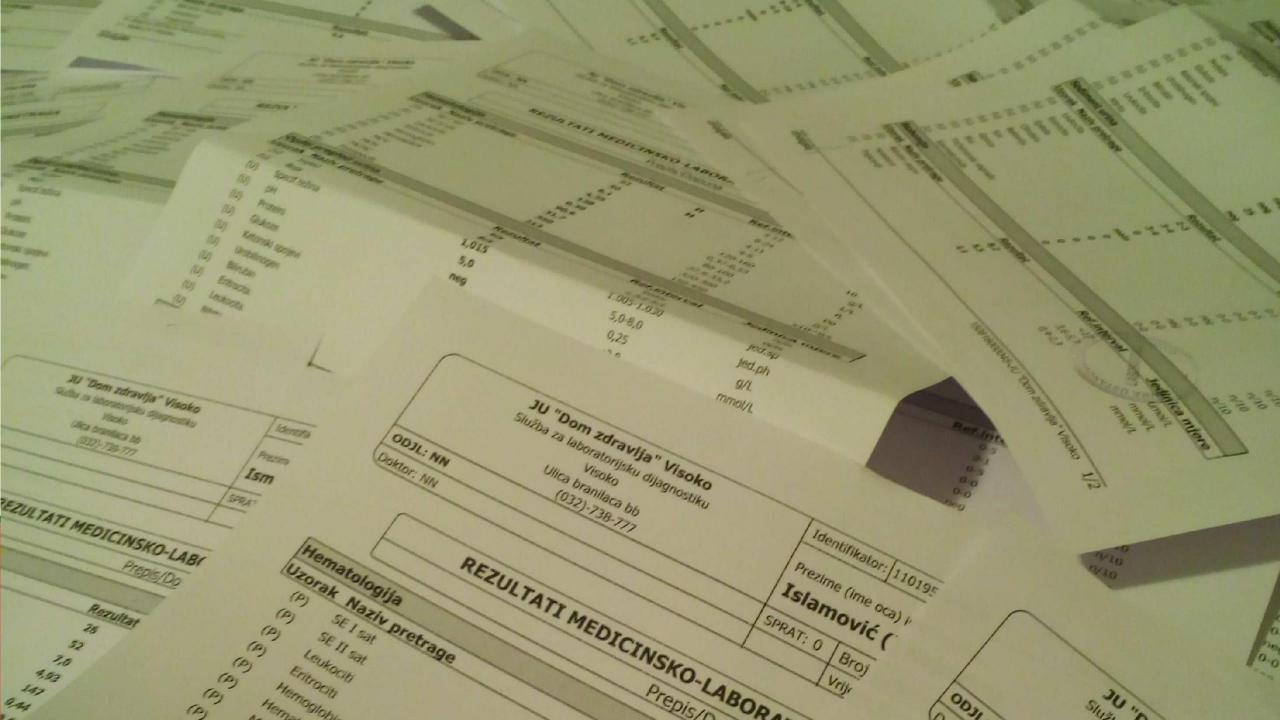


Subjective evaluation of headache before and after the first visit



Subjective evaluation of headache before and after the second visit





KEEP IN MIND:

•following analysis is including only subjects with pathological values of parameters in the first test made and their change during the study

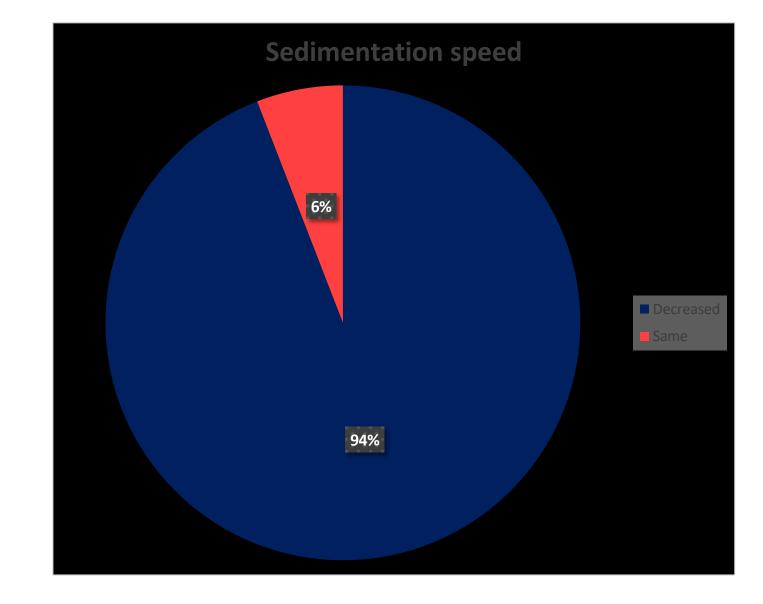
• larger study with longer period of time is warranted to fully confirm the changes

• why was it important?

We had to know there was no ANY harm to health condition

Sedimentation speed increased:

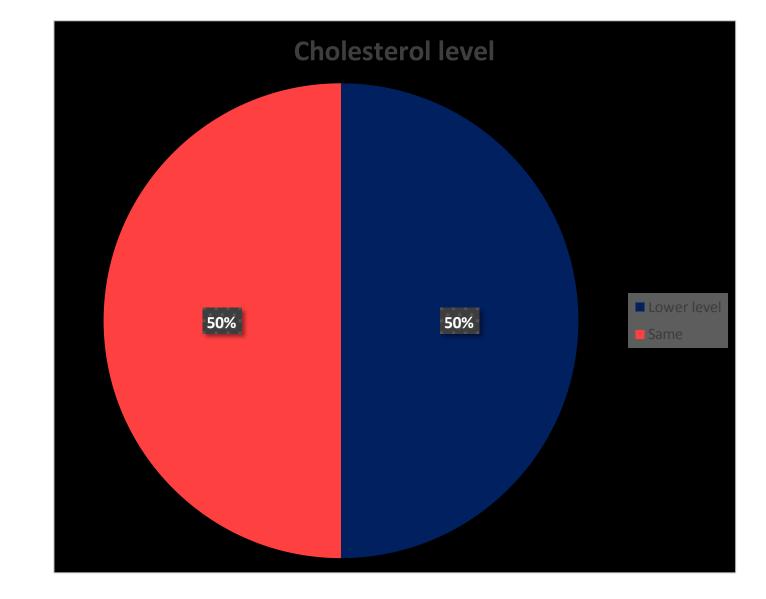
- Inflammation
- Infection
- Viral infection
- Kidney, bone, joint, or heart valve infections
- Autoimmune diseases
- Cancer etc.



Increased values of cholesterol:

- Eating too much saturated fat
- Being owerweight
- Being inactive
- Age
- Smoking
- Family history
- 3-6 months needed to lower it

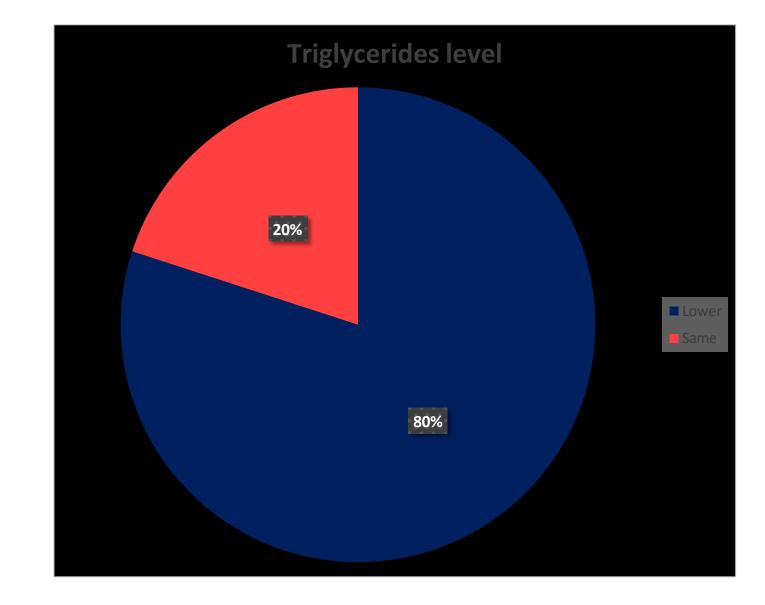
3.6-5.7 mmol/L



Triglycerides

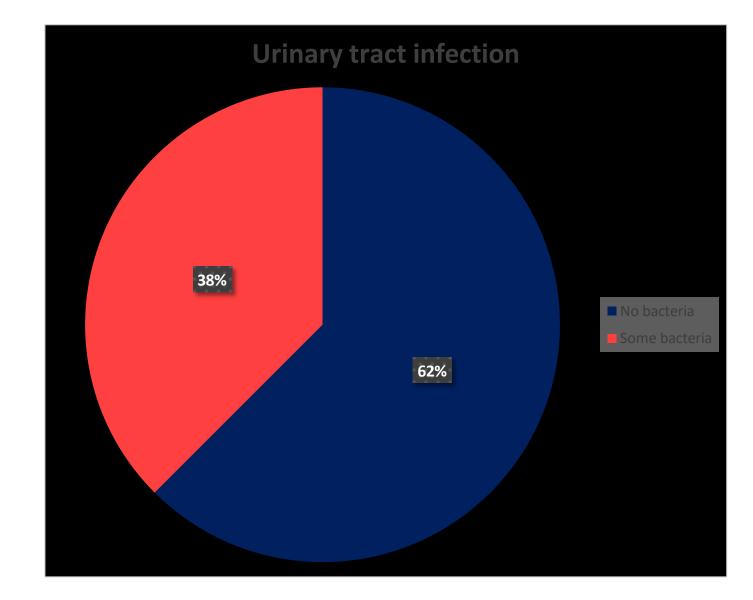
- Stash of unused calories
- Provide body with energy
- Atherosclerosis leading to heart attack and stroke
- Obesity
- Metabolic syndrome

0.4-2.3 mmol/L



Urinary tract infection

- Mostly caused by bacteria
- Burning feeling
- Frequent or intense urge to urinate
- Changes of color and smell of urine
- Fever
- Women > men



Conclusion

- Blood pressure, heart rate and level of glucose in the blood were constantly approaching physiological values after the visit
- Laboratory testing showed as good results as it was possible for a short period of time (metabolism of lots of selected parameters is slow and takes time to significantly change)
- Analysis of subjective scales showed excellent results- all the subjects felt extremely better after the study
- Larger study is needed to confirm the result of the Pilot study